

Notice of Allowability

Application No.

09/931,960

Applicant(s)

KITCHIN, DUNCAN M.

Examiner

Ashok B. Patel

Art Unit

2154

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 02/03/2006.
2. ☒ The allowed claim(s) is/are 1-7, 9-17, 19-26, 29 and 30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

JOHN FOLLANSBEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

DETAILED ACTION

1. Claims 1-7, 9-17, 19-26, 29 and 30 are allowed. Claims 8, 18, 27 and 28 are cancelled.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Frankie Ho on 06/05/2006.

3. The application has been amended as follows:

In the claims:

- a. Claim 1 (currently amended): An apparatus comprising:
 - a transceiving circuit of an access point to transmit data to or receive data from one or more subscribers through a wireless transmission medium;
 - a first data link control (DLC) circuit [[adapted]] of the access point to transmit data between the transceiving circuit and one or more devices coupled to a first wired communication network;
 - a second DLC circuit [[adapted]] of the access point to transmit data between the transceiving circuit and one or more devices coupled to a second wired communication network; [[and]]

circuitry to control transmission of a first beacon signal and a second beacon signal in a successive manner in the wireless transmission medium from the transceiving circuit; and

circuitry to generate a plurality of interleaved target beacon transmission times (TBTTs) based on a timing synchronization function (TSF) and to maintain constant offsets between the plurality of interleaved TBTTs based on the TSF.

wherein the first and second beacon signals are different beacon signals with the first beacon signal comprising information associated with the first wired communication network and the second beacon signal comprising information associated with the second wired communication network.

b. Claim 11 (currently amended): A method comprising:

transmitting data between a transceiver circuit of an access point and subscribers in a wireless transmission medium;

transmitting data between the transceiving circuit and one or more devices coupled to a first wired communication network through a first data link (DLC) circuit of the access point;

transmitting data between the transceiving circuit and one or more devices coupled to a second wired communication network through a second data link (DLC) circuit of the access point;

controlling transmission of a first beacon signal and a second beacon signal in a successive manner in the wireless transmission medium from the transceiver circuit, the first and second beacon signals are different beacon signals with the first beacon signal comprising information associated with the first wired communication network and the

second beacon signal comprising information associated with the second wired communication network;

generating a plurality of interleaved target beacon transmission times (TBTTs) based on a timing synchronization function (TSF); and
maintaining constant offsets between the plurality of interleaved TBTTs based on the TSF.

c. Claim 21 (currently amended): A system comprising:

a transceiving circuit of an access point to transmit data to or receive data from one or more subscribers through a wireless transmission medium;

a processor to transmit data between the transceiving circuit and one or more devices coupled to a first wired communication network, to transmit data between the transceiving circuit and one or more devices coupled to a second wired communication network, [[and]] to control transmission of a first beacon signal and a second beacon signal in a successive manner in the wireless transmission medium from the transceiving circuit, to generate a plurality of interleaved target beacon transmission times (TBTTs) based on a timing synchronization function (TSF), and to maintain constant offsets between the plurality of interleaved TBTTs based on the TSF,

wherein the first and second beacon signals are different beacon signals with the first beacon signal comprising information associated with the first wired communication network and the second beacon signal comprising information associated with the second wired communication network.

REASONS FOR ALLOWANCE

4. The following is an examiner's statement of reasons for allowance:

Applicant's arguments provided on page 10 in Applicant's response dated 09/30/2005 against the claim 1, 11 and 21 limitations are persuasive. None of the prior arts of record teach or fairly suggest the claimed limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok B. Patel whose telephone number is (703) 305-2655. The examiner can normally be reached on 8:00am-5:00pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A Follansbee can be reached on (703) 305-8498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abp


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